Bangalore Electricity Supply Company Limited

(CIN-U4010KA2002SGC030438)

Ref. No. :BESCOM/D(T)/GM(M&C)/2023-24/1880
Encl:

Corporate Office,
BESCOM, K.R. Circle,
Bangalore–560 001.
Date: 16/12/2023

Clarification No.-1

Sub: Sale of single phase, three phase whole current and three phase CT operated Static Meters for prospective consumers on rate contract basis in retail outlets and for procurement of meters for arranging power supply to new connections under Janasnehi and for replacement of defective /burnt-out meters on need basis against Purchase orders placed for O&M Divisions in Retail Outlets of BESCOM for a period of one year extendable for another one year or till implementation of Smart meters whichever is earlier.

Ref: 1. Paper Notification dated 11.11.2023.
2. T.O. Bid Enquiry No. BESCOM/GM(M&C)/124-127/RO/2023-24.
3. Pre-bid meeting held on 01.12.2023.

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The following clarification pertaining to subject bid enquiry is herewith issued consequent to request from the prospective bidders and deliberations during pre-bid meeting:

Sl. No.	As existing Clause No.	Clarifications/amendments sought by the firm	BESCOM Clarifications
1	**Scope of work:** Sale of single phase, three phase whole current and three phase CT operated Static Meters for prospective consumers on rate contract basis in retail outlets and for procurement of meters for arranging power supply to new connections under Janasnehi and for replacement of defective /burnt-out meters on need basis against Purchase orders placed by O&M Divisions in Retail Outlets of BESCOM for a period of one year extendable for another one year or till implementation of Smart meters whichever is earlier.	Request you to include supply of smart meters also in scope since it will become easy for the bidder to change over from normal meters to smart immediately without any time delay. Also this will facilitate procurement of smart meters by consumers opting for the same as per KERC guidelines. Please clarify, if Smart meter Implementing within 01 year of retail outlet operation then we have to close the outlets or Retail outlets will be continue for complete 01 year.	No change in existing scope of work. Advance intimation will be given for operation closure of the Outlets.
2	**Notice inviting tenders (NIT): QUALIFYING REQUIREMENTS:** **Technical requirement:** **Clause 2.0:** Bidder should be original manufacturer of LT AC	Request you to include experience of minimum of 3 years in retail outlets at any other utilities since running of retail outlets requires lot of activities like maintaining stock sealing of meters at MT division. Proper accounting of sale etc.	Tender condition prevails.

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	Static Energy Meters and shall have a minimum manufacturing **experience of 7 years** in the manufacture of Static Energy Meters.		
3	**Instruction to the Bidders (ITB) Clause 14.0: EARNEST MONEY DEPOSIT:** EMD of Rs.10 lakhs in e procurement portal & balance shall be furnished by way of Bank Guarantee.	Request you to indicate whether full payment of EMD is acceptable in e-procurement portal.	No change. However, if payment of full EMD is allowed in KPP portal, full payment can be made at the convenience/ risk of bidder.
4	**Instruction to the Bidders (ITB) Clause 15.2:** The bid must contain the name, designation and places of business of the person or persons making the bid and **must be signed and sealed by the bidder with usual signature.** The name(s) of person(s) signing should also be typed or printed below the signature(s).	Request to remove this since bids are submitted through e procurement portal & digitally signed by the authorized signatory.	Tender condition prevails.
5	**Instruction to the Bidders (ITB) Clause 27.0 :** The meters shall be guaranteed for a period of 5 years from the date of receipt of material. The meters declared defective by the consignees and / or by meter testing lab shall be replaced by the supplier up to the full satisfaction of the purchaser at the cost of supplier **within 3 days** of information by purchaser/ stores officer. The guarantee for the replaced meters shall start from the date of such replacement which shall be marked on name plate. In case defective meters are not replaced with in stipulated period, the penalty as per clause of delay in delivery shall be applicable.	Request to change period to **within 15 working days** since the time is too short & bidder will have problem in replacing defective meters subjected to statutory requirements. Also request you to indicate that this is applicable for department supplies only. Practically it's not possible to give the replacement within 3 days. We required at least 15days time to give the replacement. Please amend the clause.	Tender condition prevails.
6	**Conditions of contract (CoC) Clause 4.2 (c):** The meters duly tested as per IS and sealed by MT sealing sections of BESCOM, packed in a card board container will be sold to the consumer along with relevant documents like (i) Test	Request to remove this since warranty period is printed on the name plate of each & every meter sold to individual consumers.	Tender condition prevails.

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	certificate issued by the MT section of BESCOM **(ii) Warranty** along with (iii) cash receipt by manufacturer during sale of meter at the retail sale outlet indicating the serial no. of the meter. The meter should be distinctively different with a nameplate of different base colour and stating that it is consumer purchased meter. The consumer shall ensure that the meter is free from damages until it is handed over to the BESCOM AEE/AE/JE for service.		
7	**Conditions of contract (CoC) Clause 6.0:** The necessary arrangements for opening the retail sale outlets have to be made by the manufacturer at his cost only. **In case BESCOM premises are available, the manufacturer can make use of this by paying a rent as prescribed by respective Divisional Civil Officials.** The successful bidder shall operate the outlets in the areas identified by BESCOM as mentioned in Annexure-B (List of Retail outlet Locations) along with the locations as and when required and within reasonable time as specified in the LoI, without fail.	Request to indicate per sq.ft nominal rent since meter sale may not be same in all retail outlets & paying very high rent is not feasible in some retail outlets.	Location wise applicable nominal rent details will be shared at the time of issue of LoI to the successful bidder.
8	**Conditions of contract (CoC) Clause 8.0:** **Packing and forwarding:** The packing shall be done as per the manufacturer's standard practice. However, **packing should be safe and water-proof** and manufacturer should ensure the packing such that, the material should not get damaged during transit by rail/ Road.	Request to delete this wording since water proof packing not possible after MT testing.	Tender condition prevails. However, after MT testing, same is not applicable.
9	**Conditions of contract (CoC) Clause 23.0:** **Collection of disposal cost** of	Request to provide invoice for disposal cost deducted with applicability of taxes.	There is no GST on disposal cost.

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	materials used made of FRP/ PLASTIC/SMC and Polymer material used as per the circular issued by BESCOM vide OM No: BESCOM/ GM(Q,S&S)/ DGM(3)/ MGR/ BC-35/ 18-19/ CYS-109 Dated: 03.09.2019 consequent to the direction issued by NGT/ pollution control board.	For deducting the disposal cost **we required Tax Invoice for the same.** Please include the condition in the same clause.	
10	**Technical Specification Single phase Whole Current meters: Clause No.5.4: DISPLAY PARAMETERS** **i.AUTO SCROLL DISPLAY** h. Cumulative apparent energy (KVAh)	Request to remove this parameter since it is calculated using kWh & kVArh and standard for 1 phase meters (IS- 13799) supports only Wh as calibrated parameter.	Tender condition prevails.
11	**Technical Specification Single phase Whole Current meters: Clause No. 5.7(iii).** The software should have polling feature with optional selection of parameters to be downloaded for AMR application.	Request to make this feature as optional since our scope is supply of meters only & no communication module is available inside the meter for which software can be pre-designed.	To extend support during AMR integration
12	**Technical Specification Single phase Whole Current meters: Clause No.5.10:** The fixing screws shall be supplied with each meter in a pouch.	Request to remove this requirement since fixing screws may not be suitable for all mounting structures.	Tender condition prevails.
13	**Technical Specification of Single phase Whole Current meters Clause No.10.0(e), Clause 11.0(e) Three phase Whole Current meters & clause 45 Three phase LTCT operated meters- Sample for testing.:** After start of supplies and within the contract period, the owner at any time will select sample meters out of the Lots supplied to Stores/outlets for testing at CPRI for conducting type tests and other tests as mentioned in this specification at the cost of Utility. The Bidder's representative can also be present at the time of selection. If the meters fail in the tests, action will be initiated as per the terms and conditions of the bid documents.	Request to change this to type tests special tests and DLMS compliance testing will be done on sample meters picked up from a lot of 100 meters before opening of the price bid. Please note that since this tender is for a period of one year and type testing takes considerable time testing meters after starting of retail outlets may not guarantee quality of meters purchased by the consumer in case of failure. Also failure of meter in critical tests like accuracy will raise a question on correctness of recording.	Tender condition prevails.

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14	**Technical Specification Three phase Whole Current meters: Clause No.5.4(b): DISPLAY PARAMETERS (ii) PUSH BUTTON DISPLAY** f. Billing PF since last reset with date and time	Request to change this to only **Billing PF** since reset will happen automatically on 1st of every month and manual reset provision not provided as per TS.	May be read as Billing PF.
15	**Technical Specification Three phase CT operated meters: Clause No.15: SEALING OF THE METER:** Seals can with stand up to 270 deg C, so that it cannot be tampered by boiling like ordinary plastic seals.	As per poly carbonate specification seal temperate max. Sustain temperature 147 deg centigrade.	Tender condition prevails.
16	**Technical Specification Three phase Whole Current meters: Clause No.5.4 (a):** The meter should have bright LCD electronic display with backlit having minimum description of parameters (e.g. words like KWh, KVArh (Lag), KVArh (lead), KVA, KW, Power factor, Billing Parameters Values etc)/character height X width of **8 mm X 5mm** or higher and with minimum 6 digits (with one decimal digit) i.e 5+1.The decimal digit shall be clearly distinguished from integral digits.	Deviation for legends, parameter comes in 10*5 LCD size We are providing LCD as per previous supply GB94B.	LCD electronic display with Character height X width of 8 mm X 5mm or higher will be accepted.
17	**Technical Specification Three phase Whole Current meters: Clause No.5.4(b): DISPLAY PARAMETERS (ii) PUSH BUTTON DISPLAY** 1. Billing MD in kW since last reset with date and time 2. Instantaneous three phase PF 3. Anomaly 4. Billing Power on Time 5. Billing PF since last reset with date and time 6. Cum. kWh not in push mode display	We are understanding 1. Billing -1 MD in kW with date & time provided 2. **Instantaneous three phase PF as Net PF** 3. **Anomaly as Present tamper status** 4. Bill-1 Delta power on duration to be provided 5. Billing PF since last reset , Date & time is not applicable, only bill-1 Avg. PF will be provided 6. Cum. kWh added in push mode display	Tender condition prevails.
18	**Technical Specification Three phase Whole Current meters: Clause No.5.4(b): DISPLAY PARAMETERS (ii) PUSH BUTTON DISPLAY** y) The legends for kWh and MD may be as below:	We are providing kWh & MD as per Genus standard Legends LCD do not have provision for kWh & MD as per customer requirement kindly accept.	Tender condition prevails.

Sl. No.	As existing Clause No.	Clarifications/amendments sought by the firm	BESCOM Clarifications
	<table><tr><th>Month</th><th>MD</th><th>Energy</th></tr><tr><td>Aug. (Current month)</td><td>MD</td><td>kWh</td></tr><tr><td>July</td><td>MD1</td><td>kWh1</td></tr><tr><td>June</td><td>MD2</td><td>kWh2</td></tr><tr><td>May</td><td>MD3</td><td>kWh3</td></tr><tr><td>April</td><td>MD4</td><td>kWh4</td></tr><tr><td>March</td><td>MD5</td><td>kWh5</td></tr><tr><td>Feb</td><td>MD6</td><td>kWh6</td></tr></table>		
19	**Technical Specification Three phase Whole Current meters: Clause No.5.4(e): Meter reading at Power outage:** The meter shall have industrial grade rechargeable long life battery with sufficient capacity to enable the meter reader to take meter reading even under power off conditions. The primary battery activated through pushbutton during the power failure should be capable of at least 50000 such operations. The above battery activated through push button during power failure, shall be available throughout the design life (10 years) of the Meter. No power shall be consumed from this circuit when mains are available. **The same push button shall be used for displaying the readings included in auto scroll mode only during power outage.** In any case, RTC Battery Power shall not be used for display under Power off condition. The other requirements of RTC and battery shall be as per clause 5.4g.	To be clear, Only Auto mode requires in battery mode or both modes require (GB94B).	Tender condition prevails.
20	**Technical Specification Three phase Whole Current meters: Clause No.5.9 TAMPER AND FRAUD PROTECTION:** **f)** The accuracy of the meter should not be affected by injection of high frequency AC voltage/ Chopped signal/ DC Signal and harmonics on outgoing leads of the meter.	Meter run at 240*Actual current *UPF in neutral disconnected Tamper condition (when meter get affected)	Tender condition prevails.
21	**Technical Specification Three phase Whole Current meters: Clause No.5.4(b): DISPLAY**	Push mode work in Push Mode, so no meaning for "LCD segment check, which shall have display of 2 seconds.	Tender condition prevails.

Sl. No.	As existing Clause No.	Clarifications/amendments sought by the firm	BESCOM Clarifications
	PARAMETERS (ii) PUSH BUTTON DISPLAY The following parameters shall be displayed, one after other, with press of push button each time. The display shall have suitable display time for each measured values, except the LCD segment check, which shall have display of 2 seconds.		
22	**Technical Specification Three phase Whole Current meters: Clause No.8.0 TOD FEATURES:** There shall be provision for at least eight TOD Zones for energy and demand. The number and timings of these TOD Zones shall be programmable as per the requirement of the utility. **Default TOD parameters shall be displayed on the Push button Mode.**	TOD kWh parameter provided as per default display sheet parameter requirement.	Tender condition prevails.
23	**Technical Specification Three phase Whole Current meters: Clause No.5.4(b): DISPLAY PARAMETERS (ii) PUSH BUTTON DISPLAY** Note: (1)Push button mode shall have facility to lock and unlock the display (by pressing the button for few seconds continuously) OR separate page for High resolution mode under push button mode may be provided, also separate page for logging previous six months history may be provided.	We will provide 03 different mode as below and specification:- (i) Auto mode (ii) Push mode (iii) High resolution mode (press both buttons for 3-4 sec.) separate page for logging previous six months history not provided , these are providing in Push mode display Lock facilities provided for push mode parameters.	Tender condition prevails
24	Display parameters in GTPs & Technical Specifications of Three phase Whole current meters are different.	Pls. will Consider the display parameter as per Specification.	Tender condition prevails.
25	**Technical Specification Single phase Whole Current meters: Clause 2.1: APPLICABLE STANDARDS** IS 13779:1999 with latest amendments	We request you to kindly accept latest IS 13779:2020	Latest IS 13779:2020 will be accepted.
26	**Technical Specification Single phase Whole Current meters: Clause 4.1 PRINCIPAL PARAMETERS** **Surge Withstand test:** The meter shall withstand impulse voltage test at the rated impulse voltage of 10kV as per procedure laid down in IS:	We would like to state this Parameter shall be as per IS-13779: 2020	Latest IS 13779:2020 will be accepted.

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	13779:1999		
27	**Technical Specification Single phase Whole Current meters: Clause 5.1 Meter Case:** **d)** The meter cover should be ultrasonically welded with the meter base. The cover shall not just be held with base on two points of sealing. It should be supported all along the boundary of base and cover of the meter as well, so that even before ultrasonic welding, the cover should be fit perfectly with the base. The ultrasonic welding of meter case shall be such that if in case of any attempt to open the meter cover from base, there should be a clearly visible evidence of opening / tampering of meter case, meter shall display "Meter Cover Open" permanently.	We request you to kindly accept **'TC open'** display on meter LCD display that will be display permanently after the attempt to open the meter cover from the base.	Tender condition prevails.
28	**Technical Specification Single phase Whole Current meters: Clause 5.3 CT's/ SHUNT ARRANGEMENT** **(a)** The current sensing in the meter shall be based on CT and / shunt type. This is necessary to ensure accurate recording by the meter during the condition when DC component exists in the load, Phase and neutral currents to be compared and higher of the two to be used for measurement.	Need to be clarify. We understand that the requirement of the current sensing in the meter shall be based on CT and / shunt type for, Phase and neutral currents to be compared and higher of the two to be used for measurement.	Tender condition prevails.
29	**Technical Specification Single phase Whole Current meters: Clause No.5.4(b) DISPLAY PARAMETERS (ii) PUSH BUTTON DISPLAY** (f) The legends for KWh and MD should be as below	The legends for kWh and MD will be a below- last bill "MD, b1 -----MD KW", second last bill MD, "b2----MD KW" so on, as per LCD design. Same in billing energy parameters "b1----Kwh".	Tender condition prevails.

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30	**Technical Specification Single phase Whole Current meters: Clause 5.4. Display Parameters d. Self-Diagnostic Features:** ii. The meter shall display unsatisfactory functioning or non-functioning of Real Time clock battery.	Meter will display indication if non-functioning of primary battery.	Tender condition prevails.
31	**Technical Specification Single phase Whole Current meters: Clause 5.4 (b) Display Parameters (ii) PUSH BUTTON DISPLAY** **Note (1)** Push button mode shall have facility to lock and unlock the display (by pressing the button for few seconds continuously) OR separate page for High Resolution mode shall be provided.	We will provide a separate page for High Resolution.	Tender condition prevails.
32	**Technical Specification Single phase Whole Current meters: Clause 5.7 COMMUNICATION CAPABILITY** **(a)(v).** Optical port of the meter shall be provided with a suitable covered sealing arrangements having no physical access from outside without breaking the seal Rs232 port should be provided under the terminal cover so that it cannot be accessed without opening the terminal cover **Rs232 shall have suitable sealing facility.**	RS232 port will be provided under the sealed Terminal cover.	Tender condition prevails.
33	**Technical Specification Single phase Whole Current meters: Clause 5.8 TAMPER AND FRAUD PROTECTION:** **a. Current Reversal In current coil:** The meter should register energy consumption accurately	Meter will record energy accurately & forward direction. As per IS15959 tamper logging is not applicable.	Tender condition prevails.

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	in forward direction irrespective of direction of current in the current coil **(i.e. on reversal (interchange) of input (line) and output (load) terminals or phase and neutral interchange)** - the reverse indication is recorded in the internal register and also in display.		
34	**Technical Specification Single phase Whole Current meters: Clause 5.8 TAMPER AND FRAUD PROTECTION:** **d. DC Immunity:** The meter should not saturate on passing of direct current which can cause the meter either to stop recording or record inaccurately as per IS: 13779 (latest version). Apart from the above, **meter should record energy as per voltage measured between incoming phase and neutral terminals when DC signal is injected on the neutral terminal of the meter through Diode. The test in this condition will be carried out at Vref applied to incoming phase and input terminal of diode.**	Meter will record energy at rated voltage, UPF in case of DC injection on outgoing neutral terminal through diode.	Tender condition prevails.
35	**Technical Specification Single phase Whole Current meters: Clause 5.8 TAMPER AND FRAUD PROTECTION:** **h.** The bidder should upload the details as to how their meter is able to detect/protect the above **tampers and fraud with sketches and phasor diagrams** wherever necessary. Additional features, If any, in their meter may also be clearly indicated.	Tamper and fraud ----Phasor diagram not needed for single phase meter so kindly remove.	Tender condition prevails.
36	**Technical Specification Single phase Whole Current meters: Clause 5.8. TAMPER AND FRAUD PROTECTION:** **j. Meter Cover Open:** **Display to be locked. The meter shall detect/ log with date and time of meter cover opening as 'tamper', even in absence of supply.** This tamper shall also be displayed on the meter LCD as 'Meter cover	Please confirm, which one will be blocked either auto or push, or both.	Tender condition prevails.

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	open'. Meters should be recording continuously which is downloadable.		
37	**Technical Specification Single phase Whole Current meters: Clause 5.9: SEALING ARRANGEMENT OF THE METER** **(ii)** Good quality seals should have six digits non repeated numbers with embossing on both sides - one side with the logo of the manufacturer and on the other side the logo of ESCOM.	Sr. No. will provide by laser engraved	Tender condition prevails.
38	**Technical Specification Single phase Whole Current meters: Clause 5.10: FIXING ARRANGEMENT OF METER:** Every meter shall have three fixing holes - one at the top and two at the bottom. The top hole shall be provided with a special clip at the back of the meter/ shall be key-hole so that holding screw is not accessible to the consumer after the fixing of the meters.	Meter has Key Type Hole for holding screw.	Tender condition prevails.
39	**Notice inviting tenders (NIT): QUALIFYING REQUIREMENTS: A. Technical requirement: Clause no.6.0:** The bidder shall submit two Sample meters of each type along with the bid.	Please clarify two sample meters of each type required for each bid or Only two sample meters of each type enough for all 04 Bids.	Tender condition prevails.
40	**Conditions of contract (CoC) Clause no.4.3 Delivery to BESCOM:** The schedule shall be minimum of **15 days** from the date of issue of purchase order to stores as specified in the purchase order and minimum of **7 days** from the date of issue of Dispatch Instructions to outlets.	Practically its not possible to supply the meters 15 days from the date of PO. We required minimum 60 days from the date of PO even though if we received advanced planning schedule & Qty from BESCOM, then Minimum 10 days from the date of issue of DI due to transportation issues. Please amend the clause.	The schedule for supply of meters will be as specified in the purchase orders/DI.

All other terms & conditions of the subject tender remain unaltered.

(Yogesh.B.K)
General Manager (Ele.),
Meters & Commercial
BESCOM